



MASTER FILE

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DSSD CENSUS 2000 PROCEDURES AND OPERATIONS MEMORANDUM SERIES #U-1

MEMORANDUM FOR Howard Hogan
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Subject: Accuracy and Coverage Evaluation Survey - Geocode Error
 Summary Distribution

This memorandum documents summary information on potential geocoding error as measured by a preliminary match of the Accuracy and Coverage Evaluation Survey (A.C.E.) and Census. These data are tabulated based on the A.C.E. sample as drawn after small block clusters subsampling but before large block cluster subsampling. These data reflect the results of the Independent Listing housing unit inventory matched to the January 2000 Decennial Master Address File (DMAF.) As such, these data only reflect potential geocoding error. Subsequent census operations will likely reduce the level of geocoding error.

The attached two tables show the distribution of geocode errors by A.C.E. block cluster error rate. Attachment 1 provides the data on an unweighted basis (i.e. a raw count of housing units) and Attachment 2 shows the same information weighted by the A.C.E. sampling weight. Each table is presented as two identical sets of columns. The first set includes A.C.E. clusters with at least eleven housing units in the DMAF and the second set includes those with no more than ten housing units. The latter is presented separately to avoid "spikes" in the distribution at rates commonly seen in small clusters, like 50%. The columns for the two sets are as follows:

- Pct. GE Range - Percent Geocode Error Range
- Clusters - the number of clusters with geocode error rates within the stated range.
- All HU's - the number of DMAF housing units in the number of clusters given in the second column.
- HU GE's - the number of geocode errors in the number of clusters given in the second column.
- Pct. GE - Percent geocode errors; the base is the number of DMAF housing units displayed in the third column.

For instance, there were 26 block clusters with 3,966 DMAF housing units of which 3,782 were geocode errors in the Percent GE range 90 - 99.9.

The totals do not include clusters with zero DMAF housing units or clusters that were not part of the TES sampling universe for the United States. Relisted clusters and clusters using the List/Enumerate methodology were excluded from the TES sampling universe. Relisted clusters were included in the certainty component of the TES sample. Special procedures have been developed for List/Enumerate clusters.

cc: DSSD Census 2000 Procedures and Operations Memorandum Series Distribution List ^W
Variance Estimation and Long Form Branch Distribution List

Number of Census Geocode Errors by Code Error Rate

Attachment 1

Clusters with more than 10 DMAF Housing Units

Clusters with no more than 10 DMAF Housing Units

Pct. GE		DMAF Housing Units		Pct. GE		DMAF Housing Units	
Range	Clusters	All HU's	HU GE's	Range	Clusters	All HU's	HU GE's
100	38	3,351	3,351	100	59	193	193
90	26	3,966	3,782	90	1	10	9
80	30	3,686	3,179	88	1	9	8
70	36	4,137	3,109	80	6	30	24
60	48	4,289	2,805	77	1	9	7
50	74	7,569	4,127	75	3	20	15
45	44	5,553	2,599	71	1	7	5
40	53	4,457	1,878	66	12	60	40
35	43	3,719	1,378	62	1	8	5
30	72	9,200	2,989	60	1	10	6
25	95	7,577	2,088	57	2	14	8
20	91	9,374	2,065	55	2	18	10
18	45	3,384	641	50	23	82	41
16	53	4,756	803	44	3	27	12
14	72	7,197	1,081	42	1	7	3
12	83	9,685	1,241	40	6	40	16
10	88	8,794	958	37	4	32	12
9	53	7,012	657	33	17	90	30
8	66	5,695	484	30	3	30	9
7	110	12,404	923	25	7	32	8
6	113	10,289	662	22	2	18	4
5	119	11,191	601	20	6	45	9
4	157	17,196	773	16	8	48	8
3	205	20,076	697	14	9	63	9
2	212	26,198	648	12	7	56	7
1	263	45,749	664	11	6	54	6
0.1	265	77,169	362	10	4	40	4
0	6,308	516,016	0	0	890	4,307	0
Total	8,862	849,689	44,545		1,086	5,359	508

Table Excludes:

Puerto Rico (499 Clusters)

List / Enumerate Clusters (420)

Re-listed Clusters (62 in U.S.)

Clusters with zero DMAF Housing Units (873)

Number of Weighted Census Geocode Errors by Geocode Error Rate

Attachment

Clusters with more than 10 DMAF Housing Units

Clusters with no more than 10 DMAF Housing Units

Pct. GE				DMAF Housing Units				Pct. GE				DMAF Housing Units			
Range	Clusters	ALLHUs	HU GE's	Pct. GE	Range	Clusters	ALLHUs	HU GE's	Pct. GE	Range	Clusters	ALLHUs	HU GE's	Pct. GE	
100	38	262,185	262,185	100.0	100	59	52,826	52,826	100.0						
90 99.9	26	233,291	221,607	95.0	90 90.9	1	758	682	90.0						
80 89.9	30	247,528	213,368	86.2	88 88.9	1	651	579	88.9						
70 79.9	36	340,330	257,506	75.7	80 80.9	6	8,299	6,639	80.0						
60 69.9	48	378,262	245,370	64.9	77 77.9	1	1,329	1,034	77.8						
50 59.9	74	798,810	433,566	54.3	75 75.9	3	9,199	6,899	75.0						
45 49.9	44	440,460	206,478	46.9	71 71.9	1	174	124	71.4						
40 44.9	53	442,836	186,270	42.1	66 66.9	12	19,764	13,176	66.7						
35 39.9	43	397,605	148,600	37.4	62 62.9	1	2,568	1,605	62.5						
30 34.9	72	930,493	301,227	32.4	60 60.9	1	2,713	1,628	60.0						
25 29.9	95	1,052,181	286,359	27.2	57 57.9	2	3,352	1,915	57.1						
20 24.9	91	1,235,035	273,496	22.1	55 55.9	2	2,526	1,404	55.6						
18 19.9	45	456,881	85,712	18.8	50 50.9	23	31,987	15,993	50.0						
16 17.9	53	618,795	104,983	17.0	44 44.9	3	6,599	2,933	44.4						
14 15.9	72	824,765	122,725	14.9	42 42.9	1	1,627	697	42.9						
12 13.9	83	1,509,835	193,252	12.8	40 40.9	6	10,634	4,254	40.0						
10 11.9	88	1,088,042	118,443	10.9	37 37.9	4	6,427	2,410	37.5						
9 9.9	53	729,969	68,310	9.4	33 33.9	17	27,590	9,197	33.3						
8 8.9	66	927,923	79,642	8.6	30 30.9	3	12,632	3,790	30.0						
7 7.9	110	1,503,195	111,721	7.4	25 25.9	7	8,772	2,193	25.0						
6 6.9	113	1,311,385	85,111	6.5	22 22.9	2	2,979	662	22.2						
5 5.9	119	1,628,440	87,692	5.4	20 20.9	6	13,633	2,727	20.0						
4 4.9	157	2,002,466	89,559	4.5	16 16.9	8	13,950	2,325	16.7						
3 3.9	205	2,856,464	98,832	3.5	14 14.9	9	20,198	2,885	14.3						
2 2.9	212	3,452,099	86,292	2.5	12 12.9	7	16,045	2,006	12.5						
1 1.9	263	4,333,597	63,858	1.5	11 11.9	6	19,286	2,143	11.1						
0.1 0.9	265	5,712,043	27,277	0.5	10 10.9	4	18,131	1,813	10.0						
0 0	6,308	82,250,723	0	0.0	0 0	890	1,547,868	0	0.0						
Total	8,862	117,965,638	4,459,441			1,086	1,862,516	144,538							

Table Excludes:

Puerto Rico (499 Clusters)

List / Enumerate Clusters (420)

Re-listed Clusters (62 in U.S.)

Clusters with zero DMAF Housing Units (873)